

35. (New) The method of claim 34 wherein the function of the patient is a sense of smell, and wherein the stimulation site comprises a sensory region of the cortex related to the sense of smell.

36. (New) The method of claim 34 wherein the function of the patient is associated with effectuating a sense of touch, and wherein the stimulation site comprises a sensory region of the cortex related to touch.

37. (New) The method of claim 34 wherein the function of the patient is movement of a body part, and wherein the stimulation site comprises a motor region of the cortex related to movement of the body part.

38. (New) The method of claim 34 wherein the function of the patient is cognitive processing, and wherein the stimulation site comprises a region of the cortex related to the cognitive processing.

39. (New) The method of claim 34 wherein the function of the patient is memory, and wherein the stimulation site comprises a region of the cortex related to memory.

40. (New) The method of claim 34 wherein the function of the patient has been impaired by damage to the cortex, and wherein selecting the stimulation site comprises choosing a stimulation site adjacent to the damaged region of the cortex where neural-activity for carrying out impaired function occurred before damage occurred to the cortex.

41. (New) The method of claim 34 wherein the function of the patient has been impaired by a stroke in the frontal lobe of the premotor cortex in the brain of the patient, and wherein selecting a stimulation site comprises choosing a stimulation site at the premotor cortex anterior to the stroke in the frontal lobe.